

FIG. 1

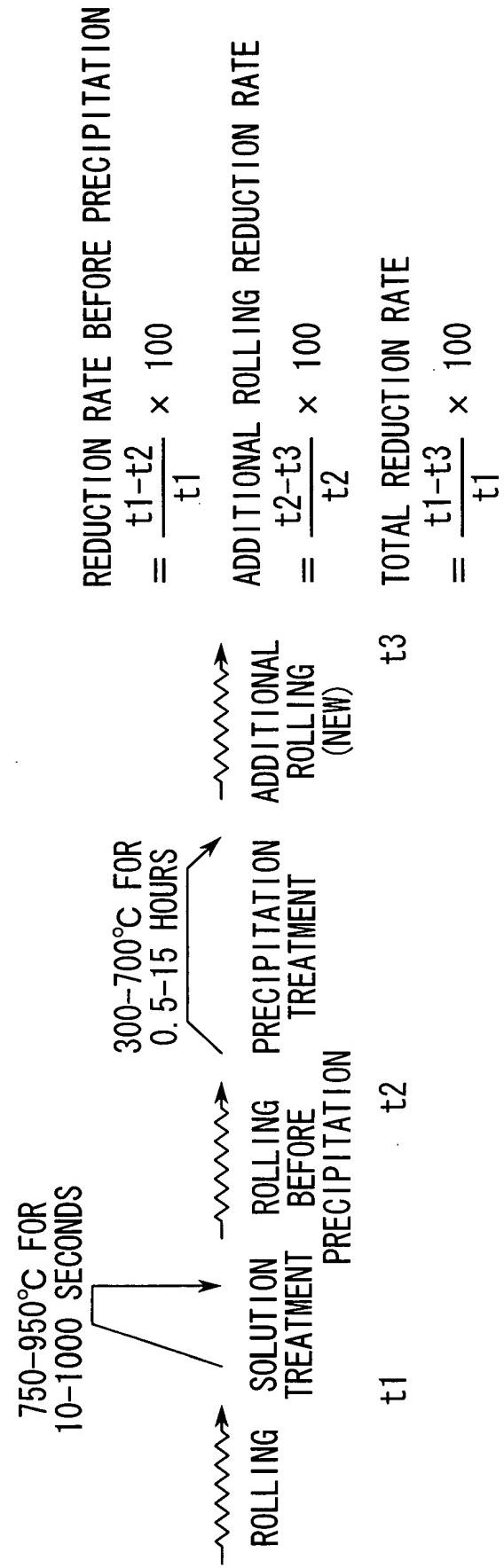


FIG. 2

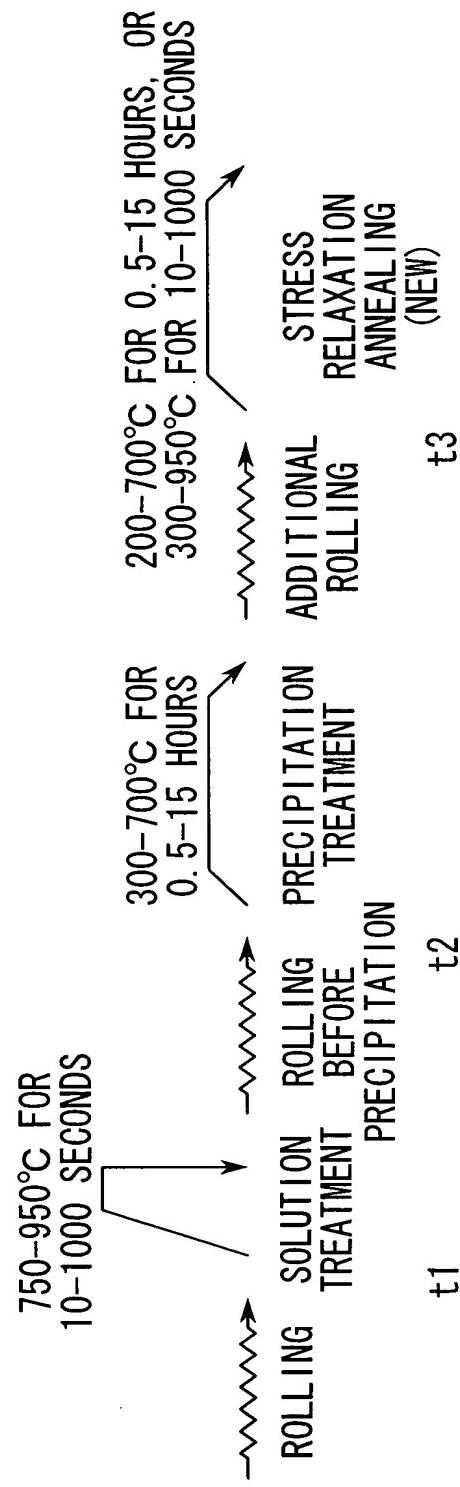


FIG. 3

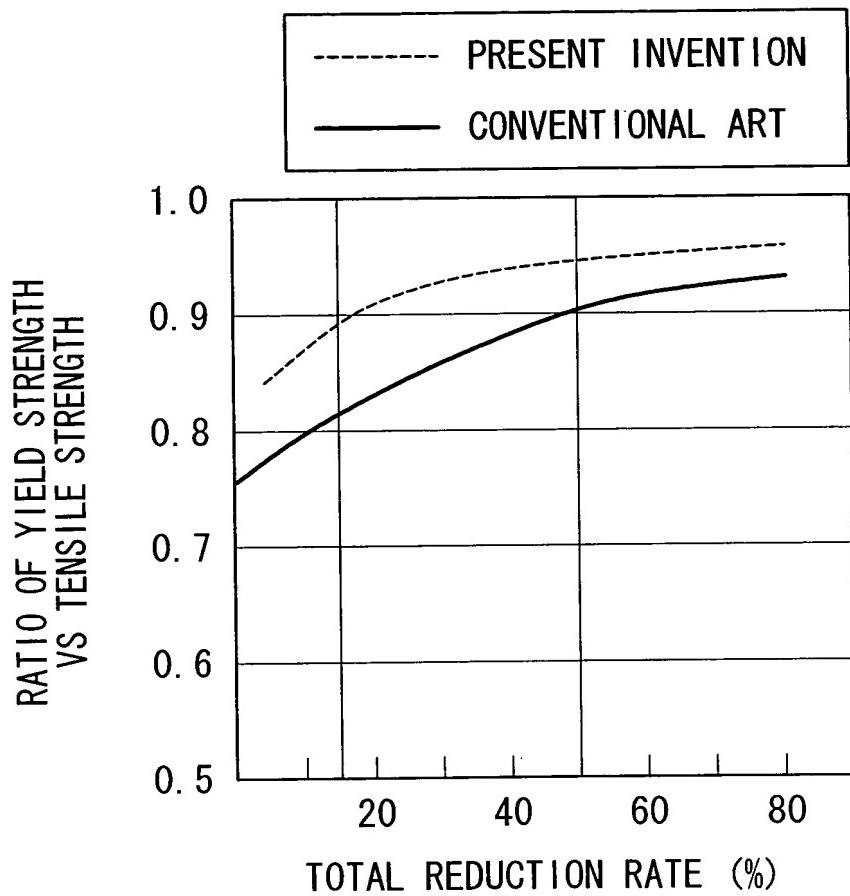


FIG. 4

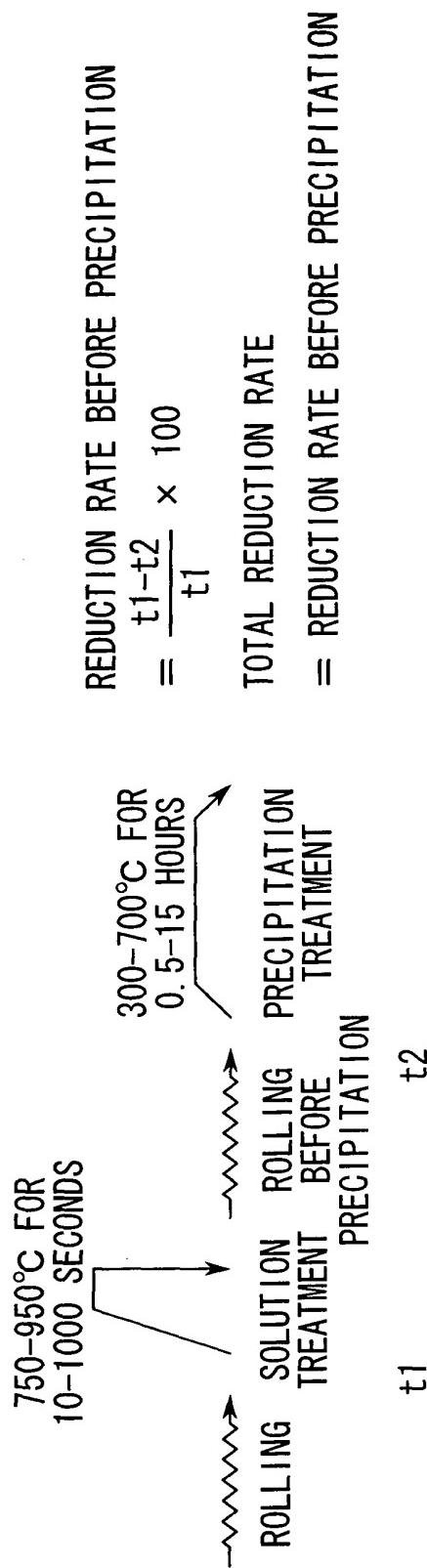


FIG. 5

| No. | COMPOSITION | | PROCESS CONDITIONS | | | STRESS RELAXATION ANNEALING |
|------------------------|-------------|--|--|-----------------------------|-----------|---|
| | Ti (%) | REDUCTION RATE (%) OF ROLLING BEFORE PRECIPITATION | ADDITIONAL ROLLING REDUCTION RATE (%) | TOTAL REDUCTION RATE (%) | | |
| EMBODIMENT | 1 | 3.1 | 15.8 | 5 | 20 | - |
| | 2 | 2.9 | 10 | 11.1 | 20 | - |
| | 3 | 3.2 | 0 | 30 | 30 | - |
| | 4 | 3.0 | 20 | 12.5 | 30 | - |
| | 5 | 2.3 | 20 | 12.5 | 30 | - |
| | 6 | 1.1 | 20 | 12.5 | 30 | - |
| | 7 | 3.3 | 20 | 37.5 | 50 | - |
| | 8 | 2.9 | 10 | 11.1 | 20 | <u>350°C 3HR.</u> (BATCH FURNACE) |
| | 9 | 3.1 | 10 | 11.1 | 20 | <u>500°C 30SEC.</u> (CONTINUOUS FURNACE) |
| | 10 | 3.2 | 20 | 12.5 | 30 | <u>350°C 3HR.</u> (BATCH FURNACE) |
| | 11 | 3.0 | 20 | 37.5 | 50 | <u>350°C 3HR.</u> (BATCH FURNACE) |
| COMPARATIVE EXAMPLE | 12 | 3.2 | 8.2 | <u>2</u> | <u>10</u> | - |
| | 13 | 3.2 | 25 | 60 | 70 | - |
| | 14 | 3.2 | 10 | 0 | 10 | - |
| | 15 | 3.1 | 20 | 0 | 20 | - |
| | 16 | 2.9 | 30 | 0 | 30 | - |
| | 17 | 3.0 | 50 | 0 | 50 | - |
| | 18 | 3.3 | 70 | 0 | 70 | - |
| | 19 | 3.1 | 20 | 12.5 | 30 | <u>150°C 10HR.</u> (BATCH FURNACE) |
| | 20 | 2.9 | 20 | 12.5 | 30 | <u>400°C 20HR.</u> (BATCH FURNACE) |
| | 21 | 0.08 | 20 | 12.5 | 30 | |
| | 22 | 4.8 | 20 | 12.5 | 30 | |

FIG. 6